jct JOURNAL OF COATINGS TECHNOLOGY

Annual Index

Volume 54
Numbers 684–695
January thru December, 1982

Journal of Coatings Technology
1982 Annual Index

Keyword Subject Index

Prepared by Technical Information
Systems Committee

Additives

Flash rust inhibitors ..... Jan., 63
Inhibitors, aluminum-solvent interaction ..... Aug., 47
Metallic driers, water-based alkyds ..... Nov., 55
UV stabilizers, polymer surface erosion and mildew . . . Dec., 27

Adhesion

Physico-chemical aspects of adhesive bonds ..... Sept., 59

Application and Finishing

Autodeposition rate, latex particle size and electrophoretic mobility (QELS) ..... Nov., 37
Electrodeposition, cathodic ..... May, 35
Electrodeposition, cathodic, control of bath conductivity by purging reverse osmosis concentrate ... June, 57
Electrodeposition, cathodic, water-based coatings Mar., 33
Electrodeposition bath maintenance, electroultrafiltration ..... Dec., 33

Biological Materials and Processes

Aureobasidium pullulans (mildew), lab tests, acrylic polymer-bound fungicides ..... July, 41
Aureobasidium pullulans (mildew), polymer exposures, UV surface stabilizers ..... Dec., 27
Microbiological degradation, latex emulsions ..... Feb., 39
1,4-Phenolic hydroxy fungicidal acrylates ..... July, 27

Chemical Materials and Processes

Biscyclic urea compounds (masked aliphatic isocyanates), curing agents ..... June, 61
Electrophoresis and electroultrafiltration, electrodeposition bath maintenance ..... Dec., 33
Flash rust inhibitors ..... Jan., 63
N-(2-hydroxyalkyl) amides, esterification ..... Mar., 27
Isocyanate (blocked) crosslinking agents, synthesis and thermal dissociation ..... Apr., 43
Pyrolysis and solvent recovery, coatings wastes ... May, 23

Coatings

Aircraft, pigmented polymer bead ..... Dec., 19
Antifouling ..... Jan., 83
Corrosion-resistant, flash rust resistance ..... Jan., 63
Corrosion-resistant, for SO_2 scrubbers ..... May, 47
Corrosion-resistant, pigmentation ..... July, 51
Corrosion-resistant, salt spray tests ..... Mar., 17
Corrosion-resistant, zinc flake primer ..... Oct., 65
Electrodeposited, automotive ..... June, 57
Dec., 43
Electrodeposited, cathodic ..... May, 35
Exterior, wood ..... Mar., 43
Fungicidal ..... July, 27
July, 41
Lead content ..... Apr., 63
Polymer glass transition region ..... Aug., 33
Solar ..... Aug., 41

Acrylic baking enamels ..... June, 61
Acrylic, cathodic delamination ..... Dec., 51
Acrylic-bound fungicidal ..... July, 27
July, 41
Acrylic - ϵ-caprolactone, high solids ..... Oct., 77
Acrylic - melamine-formaldehyde, high solids, crosslinking ..... Feb., 57
Acrylic, thermosetting, metallic ..... Oct., 83
Alkoxysilane, emulsion, crosslinking ..... Jan., 69
Alkyd, air drying ..... Apr., 53
Alkyd, water-based, drying ..... Nov., 55
Amino, high solids ..... Apr., 26
Black chrome, solar ..... Aug., 41
Cellulose acetate, antifouling ..... Jan., 83
Emulsion, corrosion-resistant, pigmentation ..... July, 51
Emulsion, metal marking ..... Feb., 27
Epoxy, baking enamels ..... June, 61
High solids, telechelic ..... July, 47
High solids, automotive, metallic ..... Oct., 83
High solids, viscosity reduction ..... Sept., 67
Latex, autodeposited ..... Nov., 37
Latex, CPVC ..... Mar., 51
Latex, emulsion ..... Feb., 39
Polybutadiene, cathodic delamination ..... Dec., 51
Poly (methyl methacrylate), cast films ..... Nov., 31
Silica - methyl siloxane, antifouling ..... Jan., 83
Telechelic ..... July, 47
Water-based, cathodic electrodeposited ..... Mar., 33
Water-based, combustibility and flash point ..... Nov., 45
Water-based, corrosion-resistant, flash rusting .... Jan., 63
Zinc phosphate on steel, Phosphate Quality Index June, 29

Coatings—Liquid Properties and Tests

Combustibility and flash point, water-based coatings and printing inks ..... Nov., 45
Drying time (Gardner Circular Dry Time Recorder), water-based alkyds ..... Nov., 55
Viscosity, dilute 'water-soluble' acrylics ..... May, 57
Viscosity, low shear, and leveling ..... Nov., 21

Coatings Industry

Commission Internationale de l'Eclairage (CIE) activities ..... Nov., 65

Color and Appearance

Commission Internationale de l'Eclairage (CIE) activities ..... Nov., 65
Commission Internationale de l'Eclairage (CIE) system of colorimetry (1931) ..... Feb., 65
Computerized color formulation ..... Aug., 55
Distinction of image (DOI), painted glass-reinforced RRIM urethane ..... Feb., 47
Flop and metal flake orientation, automotive coatings Oct., 83
Kubelka-Munk, near infrared region, computerized color matching ..... Sept., 35
Reflectance, aircraft coatings, pigmented polymer beads ..... Dec., 19
Reflectance, black chrome solar coatings ..... Aug., 41
Reflectance, math, model, heat exposure effect .. Aug., 41
Reflectance, near infrared, computer values ..... Sept., 35
Tinting strength (absorption), pigments and artists colors ..... Sept., 43

Computer Applications

Air dry, soya- and linseed-alkyds, time lapse infrared spectroscopy ..... Apr., 53
Computerized color formulation ..... Aug., 55
Color matching (reflectance), near infrared ..... Sept., 35
Viscosity, low shear, Brookfield viscometer ..... Nov., 21

Cure and Curing

Air dry, soya- and linseed-alkyds, time lapse infrared spectroscopy ..... Apr., 53
Crosslink density and cure windows, acrylic-melamine ..... Feb., 57
Crosslinking, acrylic and epoxy enamels, with isocyanate ..... June, 61
Crosslinking, alkoxysilane emulsion polymers .... Jan., 69
Crosslinking, amino high solids coatings ..... Apr., 26
Drying, water-based alkyds, effect of metallic driers Nov., 55
N-(2-hydroxyalkyl) amides, esterification and crosslinking mechanism ..... Mar., 27
Isocyanate (blocked) crosslinking agents ..... Apr., 43
Polymer glass transition and cure ..... Aug., 33

Exposures and Weathering

Accelerated, salt spray, coated steel ..... Mar., 17
Accelerated, salt spray, emulsion coatings ..... July, 51
Accelerated, salt spray, water-based coatings ..... Jan., 63
Accelerated, salt spray, Zinc flake primers ..... Oct., 65
Accelerated, Weatherometer, aircraft coatings .... Dec., 19
Immersion, Atlas Test Cell, for SO_2 scrubber lining May, 47
Immersion, bullet hole, NaCl soln., Zinc flake primer Oct., 65
Marine, antifouling ..... Jan., 83
Marine, emulsion coatings ..... July, 51
Outdoor, coated wood ..... Mar., 43
Outdoor, polymers, effect of UV surface stabilizers Dec., 27
Water immersion, electrocoated automotive coatings Dec., 43
Water immersion, water-based coatings ..... Jan., 63

Film Degradation/Deterioration and Tests

Cathodic delamination, coated metal, ellipsometry Dec., 51
Metal marking, emulsion coatings ..... Feb., 27
Solvent penetration and barrier properties, poly (methyl methacrylate) cast films ..... Nov., 31

Film Properties (Dry Film) and Tests

Acoustic emission and tensile, electrocoated automotive coatings ..... Dec., 43
Capacitance, electrocoated automotive coatings ... Dec., 43
Chloride permeability, corrosion-resistant pigmented emulsion coatings ..... July, 51
Corrosion resistance, salt spray tests ..... Mar., 17
Corrosion resistance, SO_2 scrubber linings ..... May, 47
Corrosion resistance, water-based coatings with flash rust inhibitors ..... Jan., 63
Surface quality, Zinc phosphate coated steel (Phosphate Quality Index) ..... June, 29

Government Regulations

Lead content of coatings ..... Apr., 63

Instrumental Analysis and Methods

Brookfield viscometer, computerized ..... Nov., 21
Electron microscopy, metal marking of emulsion coatings ..... Feb., 27
Ellipsometry, cathodic delamination ..... Dec., 51
Gas chromatography (inverse), solubility parameters Jan., 89
Gel permeation chromatography, water-based epoxy-acrylic polymers ..... June, 41
Infrared spectroscopy, isocyanate (blocked) cross-linking agents ..... Apr., 43
Infrared spectroscopy, water-based epoxy-acrylic polymers ..... June, 41
Infrared spectroscopy (time-lapse), soya- and linseed-alkyd air drying ..... Apr., 53
Integrating sphere reflectometer (reflectance), black chrome solar coatings ..... Aug., 41
Match-Scan spectrophotometer, computerized color matching ..... Sept., 35
Nuclear magnetic resonance (C^{13}), water-based epoxy-acrylic polymers ..... June, 41
Optical microscopy, metal marking of emulsion coatings ..... Feb., 27
Quasielastic light scattering technique (QELS), latex particle size ..... Nov., 37
Scanning electron microscopy (SEM), alkoxysilane emulsions ..... Jan., 69
Scanning electron microscopy (SEM), electrocoated automotive coatings ..... Dec., 43
Scanning electron microscopy (SEM), metal marking of emulsion coatings ..... Feb., 27
Scanning electron microscopy (SEM), pigmented polymer beads ..... Dec., 19
Scanning electron microscopy (SEM), steel surface June, 29
Scanning electron microscopy (SEM), UV surface stabilizers for polymers ..... Dec., 27
Thermogravimetric analysis (TGA), isocyanate (blocked) crosslinking agents ..... Apr., 43
Torsion Braid Analyzer (TBA), polymer glass transition ..... Aug., 33
X-ray fluorescence spectrometry, lead in coatings . Apr., 63

Interfacial Phenomena

Adhesive bond, coating-substrate interface ..... Sept., 59
Cathodic delamination, coating-metal interface ... Dec., 51
Solvent penetration, poly(methyl methacrylate) cast film—substrate interface ..... Nov., 31
White spruce wood, linseed oil penetration ..... Oct., 91

Mathematical Models

Reflectance, black chrome solar coatings ..... Aug., 41

Oils

Linseed, uptake by white spruce wood ..... Oct., 91

Pigments and Extenders

CPVC, pigment volumentric oil absorption, latex coatings ..... Mar., 51
Computer color match, near infrared ..... Sept., 35
Corrosion-inhibiting, Zinc flake ..... Oct., 65
Effect on metal marking of emulsion coatings .... Feb., 27
Metallic, Aluminum flake, orientation and flop, automotive coatings ..... Oct., 83
Performance in corrosion-resistant emulsion coatings July, 51
Pigmented polymer beads, aircraft coatings ..... Dec., 19
Tinting strength (absorption), pigments and artists' colors ..... Sept., 43

Pollution and Wastes Control

Paint recovery, cationic electrodeposition bath, by electroultrafiltration ..... Dec., 33
Waste treatment, by solvent recovery and pyrolysis May, 23

Polymers and Resins

Effect on metal marking of emulsion coatings .... Feb., 27
Electrodeposited, cathodically ..... May, 35
Fungicidal ..... July, 27
July, 41
Outdoor polymer exposures, effect of UV surface stabilizers ..... Dec., 27
Polymer beads, pigmented, aircraft coatings ..... Dec., 19
Polymer glass transition region ..... Aug., 33
Solubility parameters, calculation ..... May, 67
Solubility parameters, gas chromatography ..... Jan., 89
Viscosity reduction, high solids ..... Sept., 67

Acrylic, bound fungicide ..... July, 27
July, 41
Acrylic, crosslinking with isocyanates ..... June, 61
Acrylic, water-soluble solutions, viscosity ..... May, 57
Acrylic - ε-caprolactone ..... Oct., 77
Acrylic - melamine-formaldehyde, curing ..... Feb., 57
Acrylic, thermosetting, for metallic coatings ..... Oct., 83
Alkoxysilane, crosslinking ..... Jan., 69
Amino ..... Apr., 26
Cellulose acetate ..... Jan., 83
Epoxy, crosslinking with isocyanates ..... June, 61
Epoxy - acrylic, water-reducible ..... June, 41
N-(2hydroxyalkyl) amides as crosslinking agents . Mar., 27
Latex, particle size and electrophoresis ..... Nov., 37
Latex, emulsion, microbiological degradation ..... Feb., 39
Poly (ethylene - vinyl acetate), solubility parameter Jan., 89
Poly (vinyl acetate), solubility parameter ..... Jan., 89
Silica - methyl siloxane ..... Jan., 83
Telecholic ..... July, 47
Urethane, glass reinforced RRIM, distinction of image ..... Feb., 47
Water-based, electrodeposited cathodically ..... Mar., 33

Printing Inks

Water-based, combustibility and flash point ..... Nov., 45

Research and Development

Innovation in R & D management ..... July, 57

Solvents and Plasticizers

Aluminum - solvent reactions ..... Aug., 47
Effect on distinction of image (DOI) of painted glass reinforced RRIM urethane substrate ..... Feb., 47
Effect on viscosity on high solids coatings ..... Sept., 67
Solubility parameters, calculation ..... May, 67
Solubility parameters, vinyl polymers ..... Jan., 89
Solvent penetration and barrier properties, poly (methyl methacrylate) cast films ..... Nov., 31
Solvent - water mixtures, combustibility and flash point ..... Nov., 45

Substrates or Surfaces to be Coated

Aluminum - solvent reactions, effect of inhibitors Aug., 47
Effect on adhesive bond ..... Sept., 59
Effect on solvent penetration and barrier properties of poly(methyl methacrylate) cast films ..... Nov., 31
Metal, coated, cathodic delamination and metal corrosion ..... Dec., 51
Metal, effect on metal marking of emulsion coatings Feb., 27
Polymers, effect of UV surface stabilizers on erosion and mildew ..... Dec., 27
Steel, surface quality/contamination, wetting tension method ..... June, 29
Urethane, glass reinforced RRIM, coated, surface roughness and distinction of image (DOI) ..... Feb., 47
Wood, coated, exterior exposures ..... Mar., 43
Wood, white spruce, linseed oil uptake ..... Oct., 91

Surface Preparation and Pretreatment

Zinc phosphate coatings on steel, phosphate quality index ..... June, 29

Alphabetical Listing of Papers

A

Amino Resins in High Solids Coatings—W.J. Blank, Apr., p. 26.

Anti-Corrosive Primers Based on Zinc Flake—C.H. Hare and S.J. Wright, Oct., p. 65.

B

Bis Cyclic Urea Compounds as Masked Aliphatic Isocyanate Curing Agents for Baking Enamels—P.W. Sherwood, June, p. 61.

Brookfield Viscometers for Determination of Low-Shear Viscosity and Leveling Behavior—R.E. Smith, Nov., p. 21.

C

Cathodic Electrodeposition—M. Wismer, P.E. Pierce, J.F. Bosso, R.M. Christenson, R.D. Jerabek, and R.R. Zwack, May, p. 35.
CIE Serves the Coatings Industry, Too!—F.W. Billmeyer, Jr., Nov., p. 65.
Combustibility of Water-Borne Paints and Printing Inks—W. Hansen, Nov., p. 45.
Conductivity Control of Cathodic Electrocoating—W.S. Springer, G.G. Strosberg, and J.E. Anderson, June, p. 57.
Cure Response in Acrylic Copolymer/Melamine Formaldehyde Crosslinked Coatings—D.R. Bauer and R.A. Dickie, Feb., p. 57.

D

Dependence of Surface Preparation in PMMA Coatings on Preparation History—A. Carré and H.P. Schreiber, Nov., p. 31.
Design of Waterborne Coatings for the Corrosion Protection of Steel. Part II: Evaluation of Some Chemicals as Flash Rust Inhibitors in an Aqueous Air Dry Coating—New England Society for Coatings Technology, Jan., p. 63.
Determination of Lead in Paint By Energy Dispersive X-Ray Fluorescence Spectrometry—G.S. Kuntz and R.L.R. Towns, Apr., p. 63.
Determination of the Tinting Strength of Chromatic Pigments—R.M. Johnston-Feller and C.W. Bailie, Sept., p. 43.

E

Effect of Water Immersion on the Acoustic Emission and Failure of Automotive Finishes—J.A. Rooum and R.D. Rawlings, Dec., p. 43
Electrophoretic Characterization of Functional Latexes by Quasielastic Light Scattering—Cleveland Society for Coatings Technology, Nov., p. 37.
Electroultrafiltration of a Cationic Electrodeposition Paint—J.M. Radovich and I-M. Chao, Dec., p. 33
Ellipsometric Studies on the Cathodic Delamination of Organic Coatings on Iron and Steel—J.J. Ritter, Dec., p. 51.
Equations for Calculating Homolog Solubility Parameters. The Limiting Solubility Parameter—C.H. Fisher, May, p. 67.
Esterification of N(2-Hydroxyalkyl) Amides—Z.W. Wicks, Jr. and N. Chiang, Mar., p. 27.
Experimental Origins of the 1931 CIE System of Colorimetry—W.D. Wright, Feb., p. 65.
Evaluation of Linings for SO_2 Scrubber Service—D.M. Berger, R.J. Trewella, and C.J. Wummer, May, p. 47.

F

Facile Methods for Measuring the Surface Quality of Steel Substrates and Zinc Phosphate Conversion Coatings—K.R. Buser, June, p. 29.
Factors Affecting Metal Marking of Organic Coatings—L.A. Simpson, Feb., p. 27.
Factors Affecting the Distinction of Image (DOI) of Painted Fiberglass Reinforced Reaction Injection Molded (RRIM) Urethane—D.J. Hart, Feb., p. 47.
Feasibility of Using Alkoxysilane-Functional Monomers for the Development of Crosslinkable Emulsions—T.R. Bourne, B.G. Bufkin, G.C. Wildman, and J.R. Grawe, Jan., p. 69.

G

The Glass Transition: What's the Point?—M.B. Roller, Aug., p. 33.
Graphical Solution to CPVC Problems in Latex Paints—R.H. Rowland and F.B. Stieg, Mar., p. 51.

I

Increased Durability in Aircraft Coatings by the Use of Pigmented Polymer Beads—G.P. Bierwagen, Dec., p. 19.
Influence of Light Stabilizers on Maintaining Surface Integrity and Preventing Biological Defacement of Polymers—P.D. Gabriele, J.R. Geib, J.S. Puglisi, and W.J. Reid, Dec., p. 27.
Innovative Concepts in R&D Management—M.A. Glaser, July, p. 57.

K

Kinetics of Thermal Dissociation of Blocked Isocyanate Crosslinkers—Detroit Society for Coatings Technology, Apr., p. 43.

M

Measurement of Solubility and Solubility Parameters for Small Organic Solutes in Polymer Films by Gas Chromatography—J.E.G. Lipson and J.E. Guillet, Jan., p. 89.
Microbiological Spoilage of Latex Emulsions: Causes and Prevention—J.A. Jakubowski, S.L. Simpson, and J. Gyuris, Feb., p. 39.
A Model for the Uptake of Linseed Oil by Wood—M.H. Schneider and A.R. Sharp, Oct., p. 91.
Modification of Acrylic-Polymers for High Solids Coatings—A.N. Theodore and M.S. Chattha, Oct., p. 77.
Morphology of 'Water-Soluble' Acrylic Copolymer Solutions—Z.W. Wicks, Jr., E.A. Anderson, and W.J. Culhane, May, p. 57.

N

New Approaches to Non-Toxic Antifouling Coatings for Ship-Hull Protection—N.A. Ghanem, N.I. El-Awady, and W.S. El-Hamouly, Jan., p. 83.

O

Optimal Pigmentation of Emulsion Coatings for Steel in Corrosive Environments—R.A. Penne, July, p. 51.
Optical Properties of Black Chrome. A Model for Predicting the Effect of Exposure to Elevated Temperatures—S.T. Wu and L.W. Masters, Aug., p. 41.

P

Physico-Chemical Interpretation of Paint Film Adhesion—S. Paul, Sept., p. 59.
Polymer Compositions for Cationic Electrodepositable Coatings—P.I. Kordomenos and J.D. Nordstrom, Mar., p. 33.
Practical Application of Kubelka-Munk Theory for the Near Infrared Region—D. Osmer and J. Kettenacker, Sept., p. 35.
Practical Considerations in the Drying of Water-Reducible Alkyds—R. Hurley and F. Buono, Nov., p. 55.
Preliminary Evaluations of the Biological Activity of Polymers with Chemically Bound Biocides—C.U. Pittman, Jr. and K.R. Lawyer, July, p. 41.

R

Reactivity of Aluminum with Solvents and Additives in Coatings—W.L. Archer and V.L. Stevens, Aug., p. 47.

Reclaiming the Energy Value of Coatings Wastes Through Pyrolysis—Louisville Society for Coatings Technology, May, p. 23.
Review of Telechelic Polymer Synthesis—R.D. Athey, Jr., July, p. 47.
Routes to Low Pollution Glamour Metallic Automotive Finishes—A.J. Backhouse, Oct., p. 83.

S

Salt Spray Testing for Short-Term Evaluation of Coatings. Part I: Reaction of Coatings in Salt Spray—B.R. Appleman and P.G. Campbell, Mar., p. 17.
Synthesis and Characterization of Water-Reducible Graft Epoxy Copolymers—J.T.K. Woo, V. Ting, J. Evans, R. Marcinko, G. Carlson, and C. Ortiz, June, p. 41.
Synthesis of Fungicidal Monomers, Polymers, and Latices—C.U. Pittman, Jr., K.S. Ramachandran, and K.R. Lawyer, July, p. 27.

T

Theory and Practice of Viscosity Reduction in High Solids Systems—L.W. Hill, K. Kozlowski, and R.L. Sholes, Sept., p. 67.
Time-Lapse Spectroscopic Investigation of Alkyd and Linseed Oil Cure—J.H. Hartshorn, Apr., p. 53.

U

Use and Misuse of Computers in Color Control—H.R. Davidson, Aug., p. 55.

W

Weathering Characteristics of Finished Wood-Based Panel Products—W.C. Feist, Mar., p. 43.

Author Index

A

ANDERSON, E.A.—See Wicks, Z.W., Jr.
ANDERSON, J.E.—See Springer, W.S.
APPLEMAN, B.R. and CAMPBELL, P.G.—Salt Spray Testing for Short-Term Evaluation of Coatings. Part I: Reaction and Coatings in Salt Spray, Mar., p. 17.
ARCHER, W.L and STEVENS, V.L.—Reactivity of Aluminum with Solvents and Additives in Coatings, Aug., p. 47.
ATHEY, R.D., Jr.—Review of Telechelic Polymer Synthesis, July, p. 47.

B

BACKHOUSE, A.J.—Routes to Low Pollution Glamour Metallic Automotive Finishes, Oct., p. 83.
BAILIE, C.W.—See Johnston-Feller, R.M.
BAUER, D.R. and DICKIE, R.A.—Cure Response in Acrylic Copolymer/Melamine Formaldehyde Crosslinked Coatings, Feb., p. 57.
BERGER, D.M., TREWELLA, R.J., and WUMMER, C.J.—Evaluation of Linings for SO_2 Scrubber Service, May, p. 47.
BIERWAGEN, G.P.—Increased Durability in Aircraft Coatings by the Use of Pigmented Polymer Beads, Dec., p. 19.
BILLMEYER, F.W., JR.—CIE Serves the Coatings Industry, Too!, Nov., p. 65.
BLANK, W.J.—Amino Resins in High Solids Coatings—Apr., p. 26.
BOSSO, F.J.—See Wismer, M.
BOURNE, T.R., BUFKIN, B.G., WILDMAN, G.C., and GRAWE, J.R.—Feasibility of Using Alkoxysilane-Functional Monomers for the Development of Crosslinkable Emulsions, Jan., p. 69.
BUFKIN, B.G.—See Bourne, T.R.
BUONO F.—See Hurley, R.
BUSER, K.R.—Facile Methods for Measuring the Surface Quality of Steel Substrates and Zinc Phosphate Conversion Coatings, June, p. 29.

C

CAMPBELL, P.G.—See Appleman, B.R.
CARLSON, G.—See Woo, J.T.K.
CARRÉ, A. and SCHREIBER, H.P.—Dependence of Surface Preparation in PMMA Coatings on Preparation History, Nov., p. 31.
CHAO, I-M.—See Radovich, J.M.
CHATTHA, M.S.—See Theodore, A.N.
CHIANG, N.—See Wicks, Z.W., Jr.
CHRISTENSON, R.M.—See Wismer, M.
CLEVELAND SOCIETY FOR COATINGS TECHNOLOGY—Electrophoretic Characterization of Functional Latexes by Quasi-elastic Light Scattering, Nov., p. 37.
CULHANE, W.J.—See Wicks, Z.W., Jr.

D

DAVIDSON, H.R.—Use and Misuse of Computers in Color Control, Aug., p. 55.
DETROIT SOCIETY FOR COATINGS TECHNOLOGY—Kinetics of Thermal Dissociation of Blocked Isocyanate Crosslinkers, Apr., p. 43.
DICKIE, R.A.—See Bauer, D.R.

E

EL-AWADY, N.I.—See Ghanem, N.A.
EL-HAMOULY, W.S.—See Ghanem, N.A.
EVANS, J.—See Woo, J.T.K.

F

FEIST, W.C.—Weathering Characteristics of Finished Wood-Based Panel Products, Mar., p. 43.
FISHER, C.H.—Equations for Calculating Homolog Solubility Parameters. The Limiting Solubility Parameter, May, p. 67.

G

GABRIELE, P.D., GEIB, J.R., PUGLISI, J.S., and REID, W.J.—Influence of Light Stabilizers on Maintaining Surface Integrity and Preventing Biological Defacement of Polymers, Dec., p. 27.
GEIB, J.R.—See Gabriele, P.D.
GHANEM, N.A., EL-AWADY, N.I., and EL-HAMOULY, W.S.—New Approaches to Non-Toxic Antifouling Coatings for Ship-Hull Protection, Jan., p. 83.
GLASER, M.A.—Innovative Concepts in R&D Management, July, p. 57.
GRAWE, J.R.—See Bourne, T.R.
GUILLET, J.E.—See Lipson, J.E.G.
GYURIS, J.—See Jakubowski, J.A.

H

HANSEN, W.—Combustibility of Water-Borne Paints and Printing Inks, Nov., p. 45.
HARE, C.H. and WRIGHT, S.J.—Anti-Corrosive Primers Based on Zinc Flake, Oct., p. 65.
HART, D.J.—Factors Affecting the Distinction (DOI) of Painted Fiberglass Reinforced Reaction Injection Molded (RRIM) Urethane, Feb., p. 47.
HARTSHORN, J.H.—Time-Lapse Spectroscopic Investigation of Alkyd and Linseed Oil Cure, Apr., p. 53.
HILL, L.W., KOZLOWSKI, K., and SHOLES, R.L.—Theory and Practice of Viscosity Reduction in High Solids Systems, Sept., p. 67.
HURLEY, R. and BUONO, F.—Practical Considerations in the Drying of Water-Reducible Alkyds, Nov., p. 55.

J

JAKUBOWSKI, J.A., SIMPSON, S.L., and GYURIS, J.—Microbiological Spoilage of Latex Emulsions: Causes and Prevention, Feb., p. 39.
JERABEK, R.D.—See Wismer, M.
JOHNSTON-FELLER, R.M. and BAILIE, C.W.—Determination of the Tinting Strength of Chromatic Pigments, Sept., p. 43.

K

KETTENACKER, J.—See Osmer, D.
KORDOMENOS, P.I. and NORDSTROM, J.D.—Polymer Compositions for Cationic Electrodepositable Coatings, Mar., p. 33.
KOZLOWSKI, K.—See Hill, L.W.
KUNTZ, G.S. and TOWNS, R.L.R.—Determination of Lead in Paint by Energy Dispersive X-Ray Fluorescence Spectrometry, Apr., p. 63.

L

LAWYER, K.R.—See Pittman, C.U., Jr.
LIPSON, J.E.G. and GUILLET, J.E.—Measurement of Solubility Parameters for Small Organic Solutes in Polymer Films by Gas Chromatography, Jan., p. 89.
LOUISVILLE SOCIETY FOR COATINGS TECHNOLOGY—Reclaiming the Energy Value of Coatings Wastes Through Pyrolysis, May, p. 23.

M

MARCINKO, R.—See Woo, J.T.K.
MASTERS, L.W.—See Wu, S.T.
MYERS, R.R.—Report of the Research Director, Apr., p. 21.

N

NEW ENGLAND SOCIETY FOR COATINGS TECHNOLOGY—Design of Waterborne Coatings for the Corrosion Protection of Steel. Part II: Evaluation of Some Chemicals as Flash Rust Inhibitors in an Aqueous Air Dry Coating, Jan., p. 63.
NORDSTROM, J.D.—See Kordomenos, P.I.

O

ORTIZ, C.—See Woo, J.T.K.
OSMER, D. and KETTENACKER, J.—Practical Application of Kubelka-Munk Theory for the Near Infrared Region, Sept., p. 35.

P

PAUL, S.—Physico-Chemical Interpretation of Paint Film Adhesion, Sept., p. 59.
PENNE, R.A.—Optimal Pigmentation of Emulsion Coatings for Steel in Corrosive Environments, July, p. 51.
PIERCE, P.E.—See Wismer, M.
PITTMAN, C.U., JR. and LAWYER, K.R.—Preliminary Evaluations of the Biological Activity of Polymers with Chemically Bound Biocides, July, p. 41.
PITTMAN, C.U., JR., RAMACHANDRAN, K.S., and LAWYER, K.R.—Synthesis of Fungicidal Monomers, Polymers, and Latices, July, p. 27.
PUGLISI, J.S.—See Gabriele, P.D.

R

RADOVICH, J.M. and CHAO, I-M.—Electroultration of a Cationic Electrodeposition Paint, Dec., p. 33.
RAMACHANDRAN, K.S.—See Pittman, C.U., Jr.
RAWLINGS, R.D.—See Rooum, J.A.
REID, W.J.—See Gabriele, P.D.
RITTER, J.J.—Ellipsometric Studies on the Cathodic Delamination of Organic Coatings on Iron and Steel, Dec., p. 51.
ROLLER, M.B.—The Glass Transition: What's the Point?, Aug., p. 33.
ROOUM, J.A. and RAWLINGS, R.D.—Effect of Water Immersion on the Acoustic Emission and Failure of Automotive Finishes, Dec., p. 43.
ROWLAND, R.H. and STIEG, F.B.—Graphical Solution to CPVC Problems in Latex Paints, Mar., p. 51.

S

SCHNEIDER, M.H. and SHARP, A.R.—A Model for the Uptake of Linseed Oil by Wood, Oct., p. 91.
SCHREIBER, H.P.—See Carrè, A.
SHARP, A.R.—See Schneider, M.H.
SHERWOOD, P.W.—Bis Cyclic Urea Compounds as Masked Aliphatic Isocyanate Curing Agents for Baking Enamels, June, p. 61.
SHOLES, R.L.—See Hill, L.W.
SIMPSON, L.A.—Factors Affecting Metal Marking of Organic Coatings, Feb., p. 27.
SIMPSON, S.L.—See Jakubowski, J.A.
SMITH, R.E.—Brookfield Viscometers for Determination of Low-Shear Viscosity and Leveling Behavior, Nov., p. 21.
SPRINGER, W.S., STROSBERG, G.G., and ANDERSON, J.E.—Conductivity Control of Cathodic Electrocoating, June, p. 57.
STEVENS, V.L.—See Archer, W.L.
STIEG, F.B.—See Rowland, R.H.
STROSBERG, G.G.—See Springer, W.S.

T

THEODORE, A.N. and CHATTHA, M.S.—Modification of Acrylic-Polymers for High Solids Coatings, Oct., p. 77.
TING, V.—See Woo, J.T.K.
TOWNS, R.L.R.—See Kuntz, G.S.
TREWELLA, R.J.—See Berger, D.M.

W

WICKS, Z.W., JR, ANDERSON, E.A., and CULHANE, W.J.—Morphology of 'Water-Soluble' Acrylic Copolymer Solutions, May, p. 57.
WICKS, Z.W., JR, and CHIANG, N.—Esterification of N(2-Hydroxyalkyl) Amides, Mar., p. 27.
WILDMAN, G.C.—See Bourne, T.R.
WISMER, M., PIERCE, P.E., BOSSO, J.F., CHRISTENSON, R.M., JERABEK, R.D., and ZWACK, R.R.—Cathodic Electrodeposition, May, p. 35.
WOO, J.T.K., TING, V., EVANS, J., MARCINKO, R., CARLSON,

G., and ORTIZ, C.—Synthesis and Characterization of Water-Reducible Graft Epoxy Copolymers, June, p. 41.
WRIGHT, S.J.—See Hare, C.H.
WRIGHT, W.D.—Experimental Origins of the 1931 CIE System of Colorimetry, Feb., p. 65.
WU, S.T. and MASTERS, L.W.—Optical Properties of Black Chrome. A Model for Predicting the Effect of Exposure to Elevated Temperatures, Aug., p. 41.
WUMMER, C.J.—See Berger, D.M.

Z

ZWACK, R.R.—See Wismer, M.

Proceedings Of the Paint Research Institute

No. 149—Report of the Research Director, Apr., p. 21.

No. 150—Synthesis of Fungicidal Monomers, Polymers, and Latices, July, p. 27.

No. 151—Preliminary Evaluations of the Biological Activity of Polymers with Chemically Bound Biocides, July, p. 41.

No. 152—Dependence of Surface Preparation in PMMA Coatings on Preparation History, Nov., p. 31.